ANALYTICAL SUMMARY REPORT

November 07, 2023

Tetra Tech - Denver 1560 Broadway St, Ste 1400 Denver, CO 80202-5164

Work Order: H23110201 Quote ID: H16343

Project Name: Lockwood Solvents RV

Energy Laboratories Inc Helena MT received the following 3 samples for Tetra Tech - Denver on 11/7/2023 for analysis.

Lab ID	Client Sample ID	Collect Date Receive Da	ate Matrix	Test
H23110201-001	LS-SPRG-01-G- 20231106	11/06/23 12:05 11/07/23	3 Aqueous	8260-Volatile Organic Compounds- Short List
H23110201-002	LS-SPRG-01-G- 20231106-D	11/06/23 12:06 11/07/23	3 Aqueous	Same As Above
H23110201-003	LS-TB-01-20231106	11/06/23 8:35 11/07/23	3 Trip Blank	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711



Prepared by Helena, MT Branch

 Client:
 Tetra Tech - Denver
 Report Date:
 11/07/23

 Project:
 Lockwood Solvents RV
 Collection Date:
 11/06/23 12:05

 Lab ID:
 H23110201-001
 DateReceived:
 11/07/23

 Client Sample ID:
 LS-SPRG-01-G-20231106
 Matrix:
 Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 13:31 / kmh
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/07/23 13:31 / kmh
Toluene	ND	ug/L		1.0		SW8260B	11/07/23 13:31 / kmh
Trichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 13:31 / kmh
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/07/23 13:31 / kmh
Surr: Dibromofluoromethane	98.0	%REC		70-125		SW8260B	11/07/23 13:31 / kmh
Surr: 1,2-Dichloroethane-d4	98.0	%REC		69-131		SW8260B	11/07/23 13:31 / kmh
Surr: Toluene-d8	109	%REC		80-119		SW8260B	11/07/23 13:31 / kmh
Surr: p-Bromofluorobenzene	119	%REC		76-123		SW8260B	11/07/23 13:31 / kmh

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711



LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Tetra Tech - Denver **Report Date:** 11/07/23 Project: Lockwood Solvents RV Collection Date: 11/06/23 12:06 DateReceived: 11/07/23 Lab ID: H23110201-002 Client Sample ID: LS-SPRG-01-G-20231106-D Matrix: Aqueous

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 15:39 / kmh
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/07/23 15:39 / kmh
Toluene	ND	ug/L		1.0		SW8260B	11/07/23 15:39 / kmh
Trichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 15:39 / kmh
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/07/23 15:39 / kmh
Surr: Dibromofluoromethane	101	%REC		70-125		SW8260B	11/07/23 15:39 / kmh
Surr: 1,2-Dichloroethane-d4	100	%REC		69-131		SW8260B	11/07/23 15:39 / kmh
Surr: Toluene-d8	112	%REC		80-119		SW8260B	11/07/23 15:39 / kmh
Surr: p-Bromofluorobenzene	115	%REC		76-123		SW8260B	11/07/23 15:39 / kmh

Report RL - Analyte Reporting Limit Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT 406.252.6325 • Casper, WY 307.235.0515 Gillette, WY 307.686.7175 • Helena, MT 406.442.0711



Prepared by Helena, MT Branch

 Client:
 Tetra Tech - Denver
 Report Date:
 11/07/23

 Project:
 Lockwood Solvents RV
 Collection Date:
 11/06/23 08:35

 Lab ID:
 H23110201-003
 DateReceived:
 11/07/23

 Client Sample ID:
 LS-TB-01-20231106
 Matrix:
 Trip Blank

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 14:03 / kmh
Tetrachloroethene	ND	ug/L		1.0		SW8260B	11/07/23 14:03 / kmh
Toluene	ND	ug/L		1.0		SW8260B	11/07/23 14:03 / kmh
Trichloroethene	ND	ug/L		1.0		SW8260B	11/07/23 14:03 / kmh
Vinyl chloride	ND	ug/L		1.0		SW8260B	11/07/23 14:03 / kmh
Surr: Dibromofluoromethane	100	%REC		70-125		SW8260B	11/07/23 14:03 / kmh
Surr: 1,2-Dichloroethane-d4	99.0	%REC		69-131		SW8260B	11/07/23 14:03 / kmh
Surr: Toluene-d8	110	%REC		80-119		SW8260B	11/07/23 14:03 / kmh
Surr: p-Bromofluorobenzene	117	%REC		76-123		SW8260B	11/07/23 14:03 / kmh

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Tetra Tech - Denver Work Order: H23110201 Report Date: 11/07/23

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Ar	nalytical Run:	R189812
Lab ID: 07-Nov-23_CCV_2	Continuing Ca	libration Ver	ification Standa	ard				11/07	7/23 10:55
cis-1,2-Dichloroethene	4.53	ug/L	0.50	91	70	130			
Tetrachloroethene	5.28	ug/L	0.50	106	70	130			
Toluene	5.11	ug/L	0.50	102	80	120			
Trichloroethene	5.12	ug/L	0.50	102	70	130			
Vinyl chloride	4.77	ug/L	0.40	95	80	120			
Surr: 1,2-Dichloroethane-d4			1.0	94	69	131			
Surr: Dibromofluoromethane			1.0	98	70	125			
Surr: p-Bromofluorobenzene			1.0	109	76	123			
Surr: Toluene-d8			1.0	114	80	119			
Method: SW8260B								Batch:	R189812
Lab ID: 07-Nov-23_LCS_3	Laboratory Co	ontrol Sample	e		Run: 5973	MSD2_231107A		11/07	7/23 11:33
cis-1,2-Dichloroethene	4.56	ug/L	0.50	91	74	124			
Tetrachloroethene	5.43	ug/L	0.50	109	77	136			
Toluene	5.29	ug/L	0.50	106	82	125			
Trichloroethene	5.32	ug/L	0.50	106	72	132			
Vinyl chloride	4.49	ug/L	0.40	90	68	140			
Surr: 1,2-Dichloroethane-d4			1.0	98	69	131			
Surr: Dibromofluoromethane			1.0	96	70	125			
Surr: p-Bromofluorobenzene			1.0	110	76	123			
Surr: Toluene-d8			1.0	113	80	119			
Lab ID: 07-Nov-23_MBLK_4	Method Blank				Run: 5973	MSD2_231107A		11/07	7/23 12:31
cis-1,2-Dichloroethene	ND	ug/L	0.50						
Tetrachloroethene	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
Vinyl chloride	ND	ug/L	0.40						
Surr: 1,2-Dichloroethane-d4			1.0	97	69	131			
Surr: Dibromofluoromethane			1.0	98	70	125			
Surr: p-Bromofluorobenzene			1.0	112	76	123			
Surr: Toluene-d8			1.0	110	80	119			
Lab ID: H23110201-001AMS	Sample Matrix	c Spike			Run: 5973	MSD2_231107A		11/07	7/23 14:35
cis-1,2-Dichloroethene	4.23	ug/L	0.50	85	74	124			
Tetrachloroethene	4.96	ug/L	0.50	99	77	136			
Toluene	4.93	ug/L	0.50	99	82	125			
Trichloroethene	4.76	ug/L	0.50	95	72	132			
Vinyl chloride	4.46	ug/L	0.40	89	68	140			
Surr: 1,2-Dichloroethane-d4			1.0	98	69	131			
Surr: Dibromofluoromethane			1.0	100	70	125			
Surr: p-Bromofluorobenzene			1.0	108	76	123			
Surr: Toluene-d8			1.0	113	80	119			

Qualifiers:

RL - Analyte Reporting Limit



QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Tetra Tech - Denver Work Order: H23110201 Report Date: 11/07/23

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW8260B								Batch:	R189812
Lab ID:	H23110201-001AMSD	Sample Matrix	Spike Duplicate			Run: 5973	MSD2_231107A		11/07	/23 15:07
cis-1,2-Dich	nloroethene	4.48	ug/L	0.50	90	74	124	5.8	20	
Tetrachloro	ethene	5.09	ug/L	0.50	102	77	136	2.5	20	
Toluene		5.04	ug/L	0.50	101	82	125	2.3	20	
Trichloroeth	nene	4.86	ug/L	0.50	97	72	132	2.2	20	
Vinyl chlori	de	4.48	ug/L	0.40	90	68	140	0.5	20	
Surr: 1,2	-Dichloroethane-d4			1.0	100	69	131			
Surr: Dib	romofluoromethane			1.0	100	70	125			
Surr: p-E	Bromofluorobenzene			1.0	106	76	123			
Surr: Tol	uene-d8			1.0	113	80	119			

Work Order Receipt Checklist

Tetra Tech - Denver H23110201

Login completed by: Taylor K. Jones		Date	Received: 11/7/2023
Reviewed by: jcsmith		Re	eceived by: RAT
Reviewed Date: 11/7/2023		Car	rier name: NPT
Shipping container/cooler in good condition?	Yes ✓	No 🗌	Not Present
Custody seals intact on all shipping container(s)/cooler(s)?	Yes 🔽	No 🗌	Not Present
Custody seals intact on all sample bottles?	Yes	No 🗌	Not Present ✓
Chain of custody present?	Yes ✓	No 🗌	
Chain of custody signed when relinquished and received?	Yes	No 🗹	
Chain of custody agrees with sample labels?	Yes ✓	No 🗌	
Samples in proper container/bottle?	Yes ✓	No 🗌	
Sample containers intact?	Yes ✓	No 🗌	
Sufficient sample volume for indicated test?	Yes ✓	No 🗌	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ✓	No 🗌	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes √	No 🗌	Not Applicable
Container/Temp Blank temperature:	0.5°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes 🗸	No 🗌	No VOA vials submitted
Water - pH acceptable upon receipt?	Yes 🗌	No 🗌	Not Applicable 🔽

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

Samples were received by ELI-Billings on 11/6/23 by hand at 9.0°C on ice, from field. One of the nine VOA vials for sample LS-SPRG-01-G-20231106 were received without the collection date and time. tj 11/6/23



Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

Code III of Inacion (Billing Information)	ation)	1	port IIII	ormatic	n (if differen	than Accou	Report Information (if different than Account Information)	Comments	ıts	
Company/Name Tetra Tech Region 8 START	START	Cor	npany/Nam	e Tetra T	Company/Name Tetra Tech Region 8 START	n 8 STAF	ΣT	*Please	send all c	*Please send all deliverables to the noted
Contact Rindy Mortensen		Cor	Contact	Maura	Maura McAleese / Richard Vitamanti	/ Richard	Vitamanti	contacts and	and	
Project #: 103X903523F0059231008	1008	Phone	ne	8(609)	(609)827-7168 / (530)798-9772	530)798-	9772	R8STAR	T.LabRe	R8START.LabReports@tetratechinc.onmicro
Mailing Address 1560 Broadway Suite 1400	1400	Mai	Mailing Address		1560 Broadway Suite 1400	uite 1400		*Please	H opinou	Soft.com *Please provide Perion 8 STABT Scribe 3.3h
City, State, Zip Denver, CO, 80202		City	City, State, Zip	Denvel	Denver, CO, 80202	12		EDD with	the Lev	EDD with the Level II report.
Email EMI.AccountsPayable@tetratech.com	@tetratech.com	Email	Tie.	firstnar	firstname.lastname@tetratech.com	e@tetrat	ech.com	*Please o	contact A	*Please contact Amanda Carlson for Region
Receive Invoice	eive Report		Receive Report	□Hard Copy	opy EEmail	H		8 START pricing	pricing.	+
Purchase Order Quote	Bottle Order	Sper	Special Report/Formats:	AC	EDD/EDT (contact labora	■ EDD/EDT (contact laboratory) ■ Other Level II		on gni	Please sub to Helena for 24 hour TAT.
Project Information			Matrix	Matrix Codes			Analysis Requested	uested		
Project Name, PWSID, Permit, etc. Lockwood Solvents RV	od Solvents RV		A- A	Air						All turnaround times are
Sampler Name John Brennan	Sampler Phone (530)798-9772	8-9772		Water Soils/	П		ISW/			standard unless marked as RUSH.
Sample Origin State MT	EPA/State Compliance	□ Yes □ No	, , , , , , , , , , , , , , , , , , ,	Solids	ьТ) : G-S,	put	SM			Energy Laboratories
URANIUM MINING CLIENTS MUST indicate sample type ☐ Unprocessed Ore ☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING ☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)	sample type BEFORE SENDING ubmitted to ELI Casper L	ocation)	8 - 8 0 - 0	Bioassay Oii Drinking Water	Short List right) TCE, c1,	hloride, s e)	tsiJ hode		/ttached	RUSH sample submittal for charges and scheduling – See Instructions Page
Sample Identification		Collection	Number of	Matrix	011	nen Jyl c	09		99	FILLABID
(Name, Location, Interval, etc.)	Date	Time	Containers	(See Codes Above)	Sil		28		S	TAT Laboratory Use Only
1 LS-SPRG-01-G-20231106	11/06/2023	023 1205	6	W	>		,			X H72110701
2 LS-SPRG-01-G-20231106-D	11/06/2023		3	×	7					X
3 65-78-01-20231106	11/0/1	Jas 0835	7	3	>					×
4						1			ļ	
5										
9						i				
7 Trip Blank lot #: 1690	10									
80										
o										
ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.	preservative tracea	billity. If the pre-	servatives	supplied	with the bott	e order we	are NOT used, pla	ase attach your presi	ervative inf	ormation with this COC.
Custody Relinquished by (print) Record	Date/Time	-05-202 3 Signature	Ture 7	h		Received by (print)	orint)	Date/Time		Signature
7	Date/T	Signature	Dant	5		Received by Lab	aboratory (print)	Date/Time 6 Nov 73	915.1	Signature

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

Check

Cash

00

Temp Blank

Receipt Temp

Antact Y N

Custody Seals

Cooler ID(s)

Shipped By

NP 7

LABORATORY USE ONLY





BOTTLE ORDER 179096

SHIPPED Tetra TO:

Contact: Maura McAleese

(609) 827-7168 Water Analysis

Phone: Project:

Tetra Tech - Denver

To report an issue with this order, view Safety Data Sheets, or let us know how we are doing, scan here or go to energylab.com/contact-us

Order Created by: Darcy Chirrick Shipped From: Billings, MT

VIA: PickUp

Ship Date: 11/3/2023

Notes Preservative Critical Hold Time Method Bottles Per Samp Bottle Size/Type

Num of Samp

> HCL-PP Do Not Rinse - Container is prepreserved. Vials must be completely full with no air bubbles.

8260-Volatile Organic Compounds-Short List

3 SW8260B

40 mL Clear Glass VOA

5 Sets)

HCL

8260-Volatile Organic Compounds-Short List

1 SW8260B

Frip Blank-8260 SHT

40 mL Clear Glass VOA

Trip Blank

Do not open this container. Return with your samples to the lab. Do Not Rinse - Container is pre-preserved.

SUPPLIES

1 Liter Amber Glass 1 FIELD Supplies
Narrow Mouth

Comments

BO#: 179096

1 of 2

HNO3 - Nitric Acid H2SO

H2SO4 - Sulfuric Acid

Acid NaOH -

NaOH - Sodium Hydroxide

ICH - Sodium Hydroxid

We strongly suggest that the samples are shipped the same day as they are collected.

ZnAc - Zinc Acetate HCI - Hydrochloric Acid Acid Acid

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report. Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant. Material Safety Data Sheets (MSDS) Available @ EnergyLab.com -> Services -> MSDS Sheets

BO#: 179096